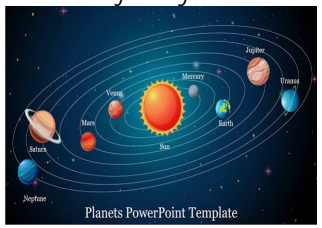
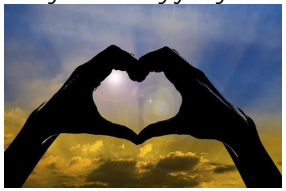
Owls Home learning ideas: Curiosity

Choose a task for each week of the term. We want you to be engaged with your homework so there is a lot of choice for you. You can either share your work electronically (email to: e.nijhuis@banburystmarysschool.co.uk) or add to your homework book.

Science	DT	RWV	PSHE
The Ultimate Rover Design Challenge Design an alien-exploration rover built to survive extreme conditions on a planet of your choice (e.g., burning heat on Venus or icy temperatures on Europa). Draw a detailed labelled diagram or build a model using recycled materials, showing features like heat shields, scientific sensors, and specialised wheels. 	**Space Food & Menu Innovation** In connection with your *Come Dine with Me* project, research how astronauts eat in microgravity. Design a 3-course "Space Menu" using ingredients that won't spoil or float away or invent a new preserved snack suitable for a long mission to Mars! 	**Everyday Heroes & Moral Choices** Inspired by our question *"What would Jesus do?"*, research a historical or modern-day figure who acted with great compassion or stood up for justice (e.g., Mahatma Gandhi, Rosa Parks, or a local community helper). Create an inspirational mini-biography or comic strip demonstrating how their choices helped others. 	**Risk & Decision Tree Guide** Create a visual flowchart or "Choose Your Own Adventure" guide showing different choices a young person might face when feeling peer pressure or encountering unsafe environments. Show how curious questions (like *"Is this safe?"* or *"What are the risks?"*) help us make informed, healthy decisions. 
Solar System Scale Model or Fact File Create a 3D model, hanging mobile, or interactive poster comparing the Sun and planets. Show your curiosity by investigating one burning question about space (e.g., *"Why does Saturn have rings?"* or *"Could humans really live on Mars?"*) and presenting your findings. 	**The Family Favourite Feast** In connection with your *Come Dine with Me* project, take charge of making a meal your family already loves! Work with an adult to cook a family-favourite dish from scratch, practice safe kitchen techniques, and present it nicely at the table. Take a photo or sketch your completed meal, write down the recipe, and collect review comments or star ratings from your family members to see if it lived up to expectations. 	**Random Acts of Kindness Challenge** Put the core question of *"What would Jesus do?"* into real-world action. Plan and carry out 3 secret acts of kindness for family members or neighbours (such as helping with a chore without being asked or making a card for someone to bring them joy). Record what you did and reflect on how putting compassion into practice changed the day for you and others. 	**The Body Protection & Wellbeing Challenge** Learn about how exercise, sleep, and nutrition physically protect our bodies and keep our immune systems strong against risks and illness. Create a 24-hour "Body Care Log" tracking how you look after your physical health over a day. Write a short reflection on how taking care of your physical body helps you stay safe, energised, and ready to make smart choices. 

Learning, Transforming, Growing